1. (ORIGINAL) A method of drilling a wellbore, comprising:

obtaining raw drilling data and information which collectively represents captured and stored organizational drilling experience including drilling knowledge and drilling experience;

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providing an ontology of defined concepts and relationships which relate to and describe drilling operations;

organizing said raw drilling data and information into a database in accordance with said ontology and in a data processing format;

providing an interface constructed of data processing instructions in a data processing format for receiving operator queries based upon user-specified criteria and for relevant or analogous knowledge or experience as an output in a human-readable format;

loading said database and said interface into at least one data processing system;

receiving at least one user query relating to a particular drilling situation and in userspecified criteria;

utilizing said at least one data processing system to retrieve from said database relevant or analogous drilling knowledge or experience utilizing said ontology and said user-specified criteria;

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utilizing said interface to provide said relevant or analogous drilling knowledge or experience to an operator;

utilizing said relevant or analogous drilling knowledge or experience to make drilling decisions during drilling operations.

- 5 2. (ORIGINAL) A method of drilling a wellbore, according to claim 1, wherein said ontology is a descriptive logic.
 - 3. (CANCELLED)
- 4. (ORIGINAL) A method of drilling a wellbore, according to claim 1, wherein said ontology is composed of a plurality of base concepts and base relationships which may be combined to construct more complex concepts and complex relationships.
- 5. (ORIGINAL) A method of drilling a wellbore, according to claim 1, wherein said raw drilling information is organized in a subsumption hierarchy.
 - 6. (ORIGINAL) A method of drilling a wellbore, according to claim 1, wherein said raw drilling information is organized in accordance with at least the following concept categories:

historical experience;

wellbore environment factors; and

- 25 downhole equipment.
 - 7. (ORIGINAL) A method of drilling a wellbore, according to claim 6, wherein said historical experience includes a plurality of factors which describe a particular historical drilling situation and associated outcome.
 - 8. (ORIGINAL) A method of drilling a wellbore, according to claim 6, wherein said wellbore environment factors include at least one of the following factors:

drilling fluid properties;

rock properties; and

formation attributes.

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9. (ORIGINAL) A method of drilling a wellbore, according to claim 6, wherein said down hole equipment category includes at least one of the following items:

bottomhole assembly components; and

10 drill bit components.